

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P479780

Luminaire Tested: **IFLD-L-SA7A-750-U-5WQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479780  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-750-U-5WQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens  
Light Source: (112) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

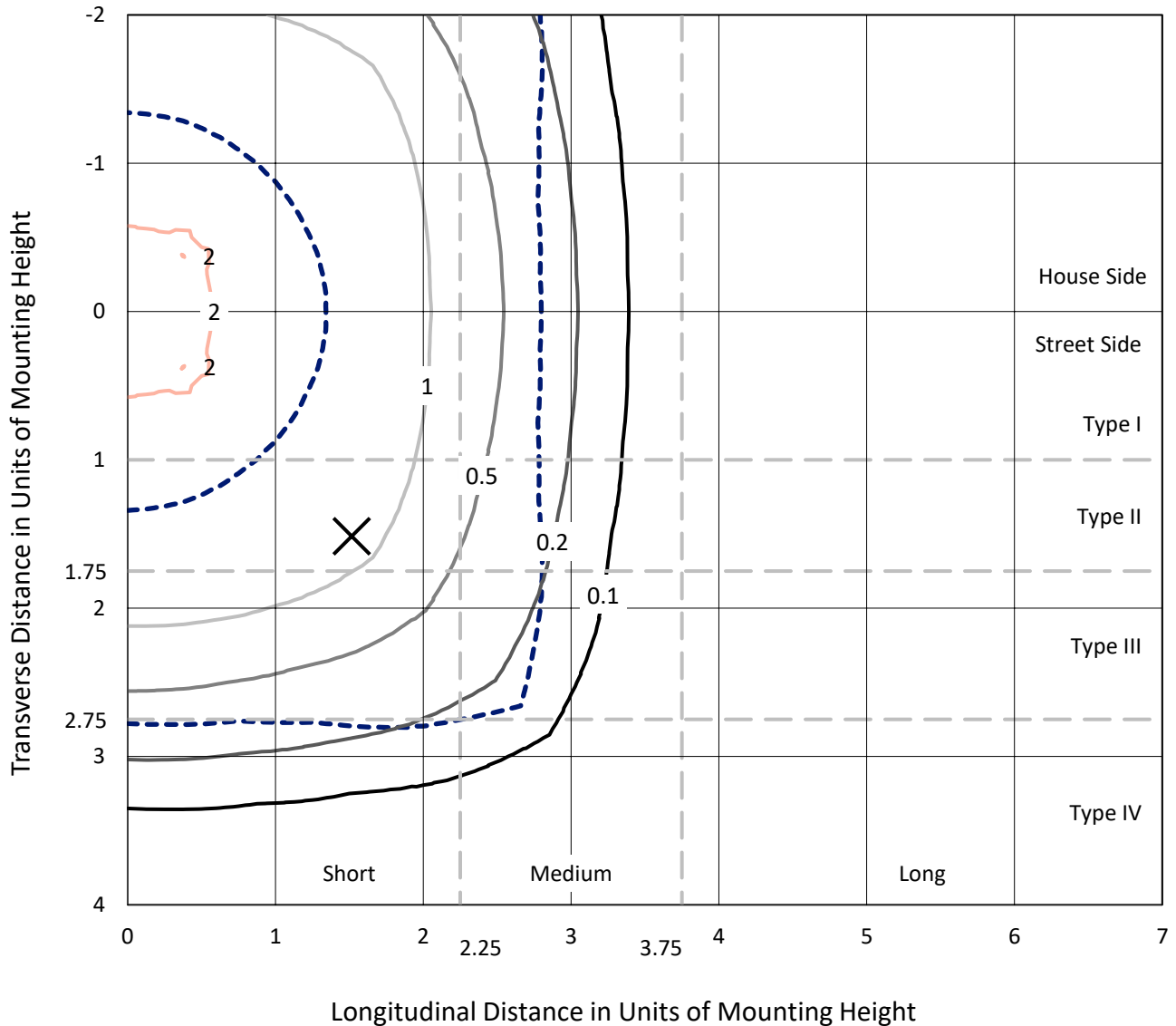
Lumens per Lamp: N/A  
Luminaire Lumens: 32855.9 lumens  
Efficiency: N/A  
Efficacy: 151.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

Input Watts (W): 217.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Iso-Footcandle Lines of Horizontal Illumination

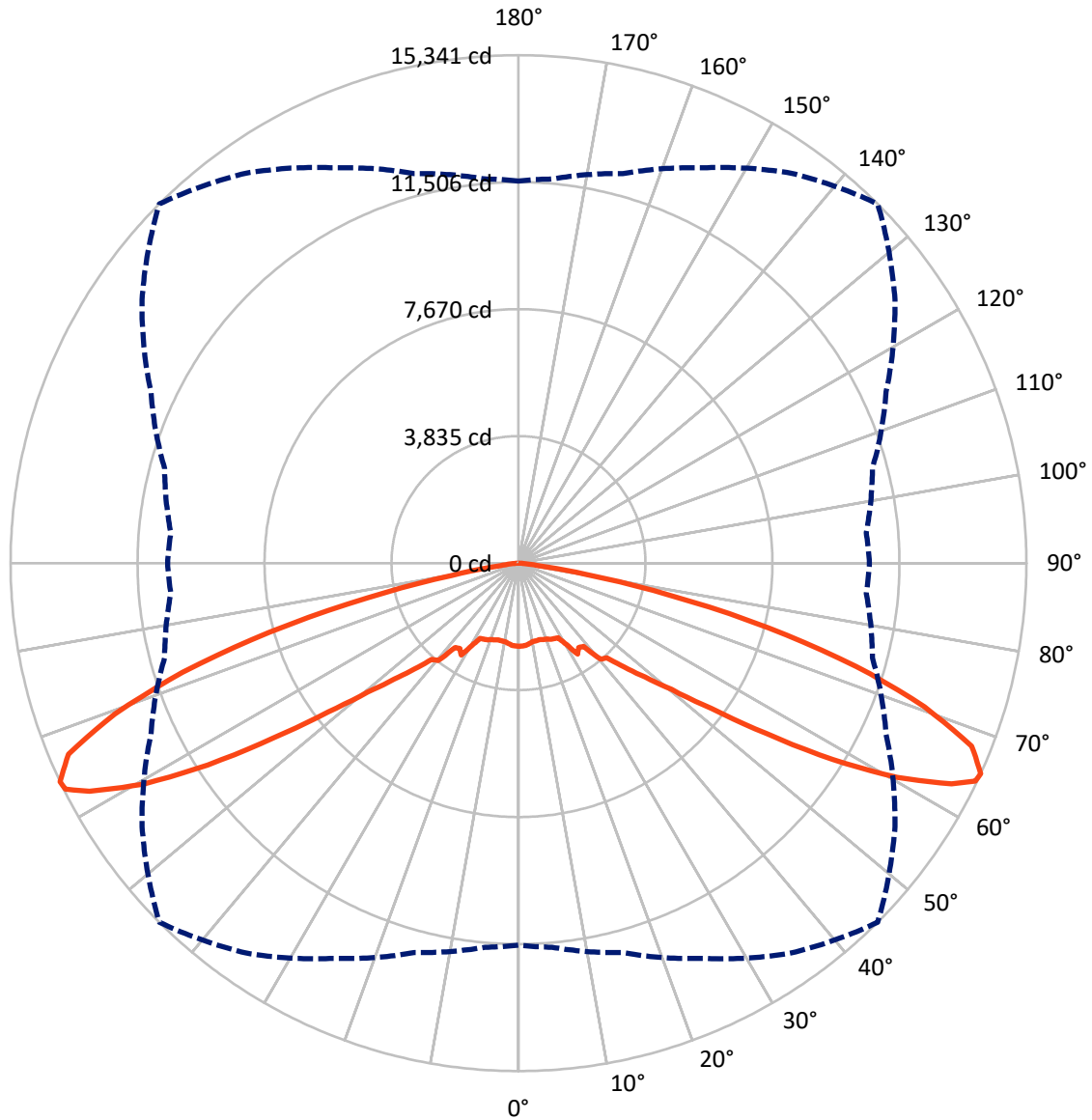
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 2.8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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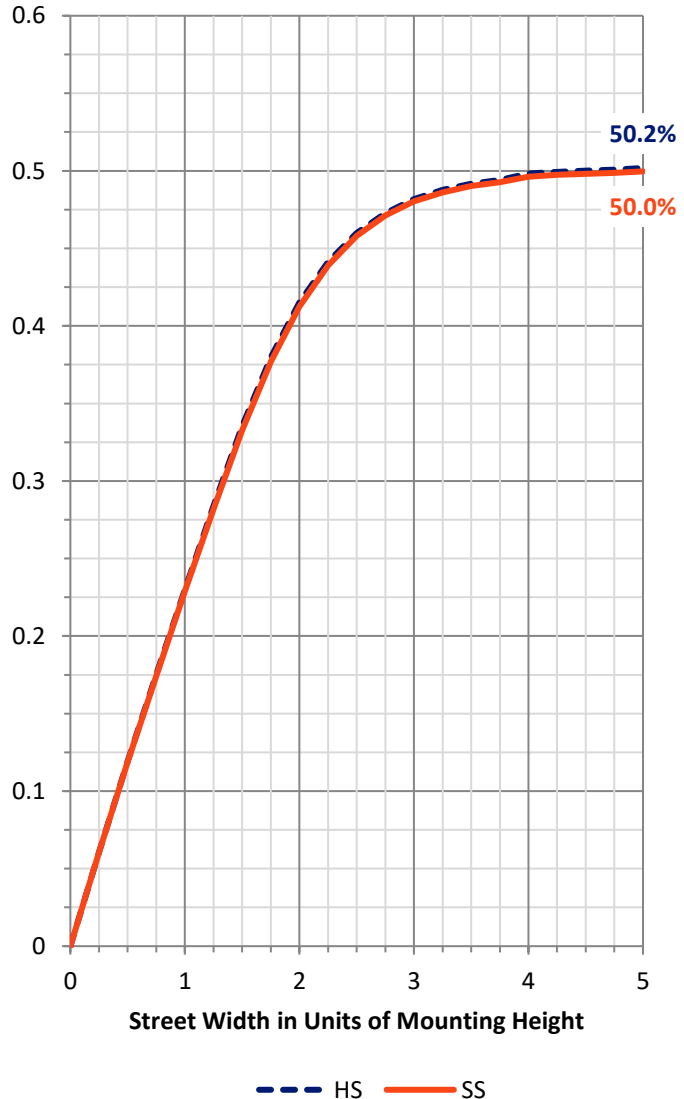
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 16427.9  | 0.0    | 16427.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 16427.9  | 0.0    | 16427.9 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 32855.9  | 0.0    | 32855.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 235.7   | 0.7       |
| 10°-20°   | 692.5   | 2.1       |
| 20°-30°   | 1198.6  | 3.6       |
| 30°-40°   | 1993.1  | 6.1       |
| 40°-50°   | 3595.8  | 10.9      |
| 50°-60°   | 8010.2  | 24.4      |
| 60°-70°   | 11937.8 | 36.3      |
| 70°-80°   | 4947.2  | 15.1      |
| 80°-90°   | 245.0   | 0.7       |
| 90°-100°  | 0.0     | 0.0       |
| 100°-110° | 0.0     | 0.0       |
| 110°-120° | 0.0     | 0.0       |
| 120°-130° | 0.0     | 0.0       |
| 130°-140° | 0.0     | 0.0       |
| 140°-150° | 0.0     | 0.0       |
| 150°-160° | 0.0     | 0.0       |
| 160°-170° | 0.0     | 0.0       |
| 170°-180° | 0.0     | 0.0       |
| 0°-90°    | 32855.9 | 100.0     |
| 0°-180°   | 32855.9 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P479780

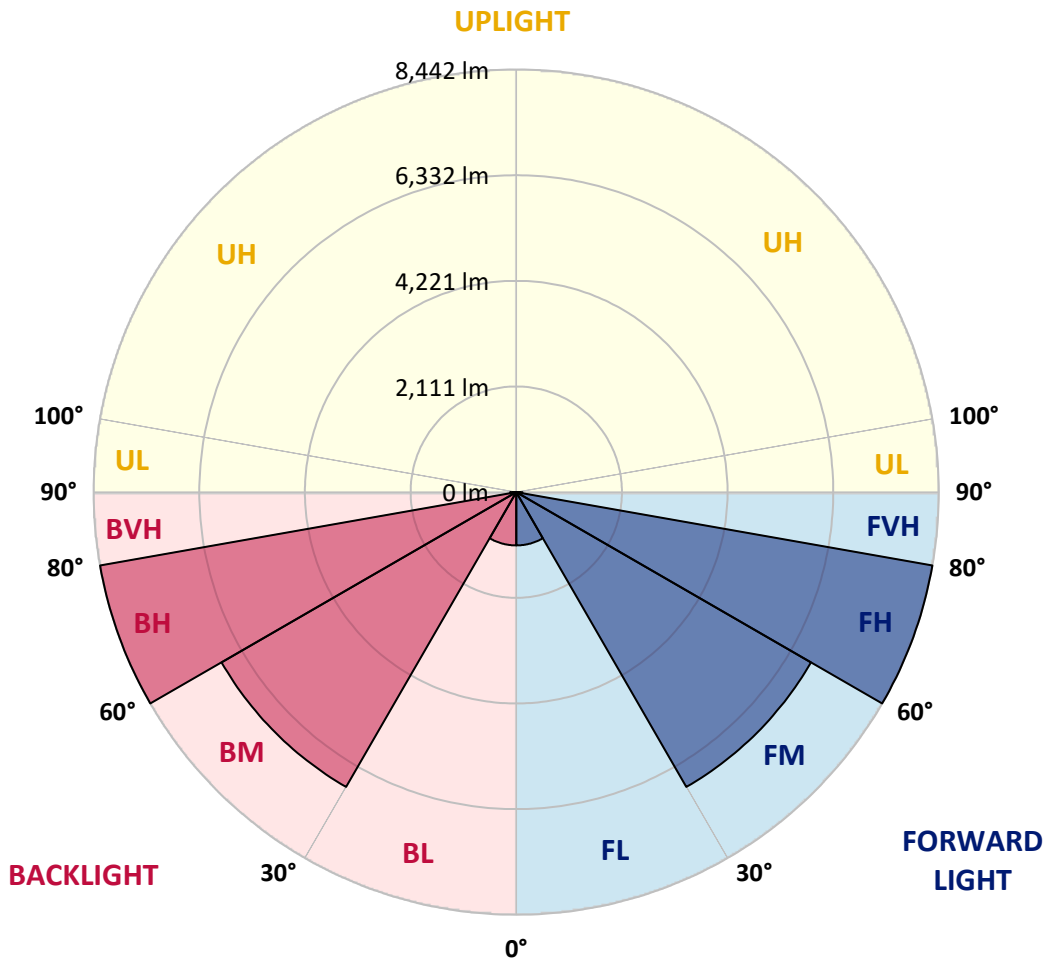
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|----------------|--------|-----------|-------------------------|------|----------|
|                |        |           | B                       | U    | G        |
| FL (0°-30°)    | 1063.4 | 3.2       |                         |      |          |
| FM (30°-60°)   | 6799.5 | 20.7      |                         |      |          |
| FH (60°-80°)   | 8442.5 | 25.7      |                         |      | G4/12000 |
| FVH (80°-90°)  | 122.5  | 0.4       |                         |      | G2/225   |
| BL (0°-30°)    | 1063.4 | 3.2       | B3/2500                 |      |          |
| BM (30°-60°)   | 6799.5 | 20.7      | B4/8500                 |      |          |
| BH (60°-80°)   | 8442.5 | 25.7      | B5                      |      | G4/12000 |
| BVH (80°-90°)  | 122.5  | 0.4       |                         |      | G2/225   |
| UL (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |          |
| UH (100°-180°) | 0.0    | 0.0       |                         | U0/0 |          |

**BUG Rating: B5-U0-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 2512.0  | 2512.0  | 2512.0  | 2512.0  | 2512.0  | 2512.0  | 2512.0  | 2512.0  | 2512.0  | 2512.0  | 2512.0  |
| 2.5°  | 2483.0  | 2490.3  | 2486.6  | 2486.6  | 2497.5  | 2504.8  | 2508.4  | 2544.7  | 2530.2  | 2541.1  | 2530.2  |
| 5°    | 2490.3  | 2490.3  | 2497.5  | 2490.3  | 2497.5  | 2490.3  | 2497.5  | 2486.6  | 2497.5  | 2504.8  | 2515.7  |
| 7.5°  | 2475.7  | 2468.5  | 2457.6  | 2457.6  | 2454.0  | 2446.7  | 2435.8  | 2464.8  | 2450.3  | 2461.2  | 2479.4  |
| 10°   | 2479.4  | 2468.5  | 2432.2  | 2439.4  | 2406.8  | 2406.8  | 2414.0  | 2414.0  | 2446.7  | 2483.0  | 2493.9  |
| 12.5° | 2479.4  | 2457.6  | 2446.7  | 2399.5  | 2399.5  | 2403.1  | 2421.3  | 2428.5  | 2450.3  | 2464.8  | 2501.1  |
| 15°   | 2479.4  | 2468.5  | 2450.3  | 2388.6  | 2403.1  | 2395.9  | 2414.0  | 2414.0  | 2461.2  | 2486.6  | 2504.8  |
| 17.5° | 2493.9  | 2501.1  | 2468.5  | 2410.4  | 2414.0  | 2428.5  | 2417.6  | 2428.5  | 2486.6  | 2504.8  | 2530.2  |
| 20°   | 2497.5  | 2468.5  | 2457.6  | 2421.3  | 2454.0  | 2446.7  | 2443.1  | 2464.8  | 2483.0  | 2515.7  | 2544.7  |
| 22.5° | 2490.3  | 2501.1  | 2457.6  | 2454.0  | 2483.0  | 2497.5  | 2504.8  | 2479.4  | 2501.1  | 2522.9  | 2548.3  |
| 25°   | 2552.0  | 2512.0  | 2501.1  | 2493.9  | 2508.4  | 2522.9  | 2515.7  | 2537.4  | 2537.4  | 2562.9  | 2595.5  |
| 27.5° | 2718.9  | 2722.6  | 2700.8  | 2613.7  | 2584.6  | 2552.0  | 2566.5  | 2624.6  | 2693.5  | 2748.0  | 2758.9  |
| 30°   | 2795.2  | 2809.7  | 2867.8  | 2853.3  | 2842.4  | 2853.3  | 2849.6  | 2864.2  | 2871.4  | 2875.0  | 2864.2  |
| 32.5° | 2864.2  | 2856.9  | 2831.5  | 2896.8  | 3111.0  | 3274.4  | 3118.3  | 2904.1  | 2856.9  | 2842.4  | 2856.9  |
| 35°   | 3114.6  | 3114.6  | 3060.2  | 2976.7  | 3089.2  | 3129.1  | 3056.5  | 2954.9  | 3013.0  | 3132.8  | 3140.0  |
| 37.5° | 3437.7  | 3390.5  | 3412.3  | 3401.4  | 3278.0  | 3190.9  | 3317.9  | 3383.3  | 3394.1  | 3390.5  | 3426.8  |
| 40°   | 3630.1  | 3597.4  | 3564.8  | 3622.8  | 3735.4  | 3815.2  | 3702.7  | 3546.6  | 3586.5  | 3666.4  | 3633.7  |
| 42.5° | 4069.3  | 3985.9  | 3993.1  | 3935.0  | 3931.4  | 3906.0  | 3880.6  | 3891.5  | 3949.6  | 4040.3  | 4054.8  |
| 45°   | 4519.5  | 4559.4  | 4534.0  | 4425.1  | 4475.9  | 4475.9  | 4403.3  | 4457.8  | 4486.8  | 4592.1  | 4606.6  |
| 47.5° | 5223.7  | 5205.6  | 5216.5  | 5118.4  | 5114.8  | 5140.2  | 5114.8  | 5118.4  | 5209.2  | 5201.9  | 5162.0  |
| 50°   | 6047.8  | 6098.6  | 6113.1  | 6065.9  | 6007.8  | 5996.9  | 5957.0  | 6007.8  | 6062.3  | 6065.9  | 6033.2  |
| 52.5° | 7187.6  | 7242.1  | 7242.1  | 7256.6  | 7329.2  | 7292.9  | 7285.6  | 7289.2  | 7184.0  | 7111.4  | 7147.7  |
| 55°   | 8625.1  | 8643.3  | 8705.0  | 8832.0  | 9053.5  | 9082.5  | 8944.6  | 8882.9  | 8690.5  | 8574.3  | 8665.1  |
| 57.5° | 10044.5 | 10117.1 | 10287.7 | 10618.1 | 10890.3 | 11188.0 | 10788.7 | 10382.1 | 10004.6 | 9819.4  | 9852.1  |
| 60°   | 11224.3 | 11329.6 | 11656.3 | 12117.3 | 12872.3 | 13144.6 | 12469.4 | 11772.4 | 11006.5 | 10440.2 | 10668.9 |
| 62.5° | 11779.7 | 11943.0 | 12218.9 | 13151.9 | 14284.5 | 14676.5 | 13685.5 | 12418.6 | 11257.0 | 10712.4 | 10701.5 |
| 64°   | 11783.3 | 11808.7 | 12360.5 | 13366.0 | 14531.3 | 15290.0 | 13979.5 | 12418.6 | 11318.7 | 10647.1 | 10770.5 |
| 65°   | 11540.1 | 11645.4 | 12179.0 | 13170.0 | 14375.2 | 15340.8 | 13877.9 | 12248.0 | 11064.6 | 10541.8 | 10599.9 |
| 67.5° | 10436.5 | 10432.9 | 10926.6 | 11910.4 | 13583.8 | 14763.6 | 13013.9 | 11293.3 | 10436.5 | 9870.3  | 9939.2  |
| 70°   | 7917.3  | 8044.3  | 8516.2  | 9725.0  | 11754.3 | 13017.6 | 11380.4 | 9598.0  | 8530.7  | 8077.0  | 8051.6  |
| 72.5° | 4737.3  | 4904.3  | 5506.9  | 6980.7  | 9129.7  | 10665.2 | 9031.7  | 7100.5  | 5815.4  | 5096.7  | 5114.8  |
| 75°   | 2159.9  | 2283.3  | 2697.2  | 3898.7  | 6084.1  | 7797.5  | 6120.4  | 4105.6  | 2944.0  | 2486.6  | 2421.3  |
| 77.5° | 606.2   | 682.5   | 911.2   | 1789.6  | 3339.7  | 4675.6  | 3434.1  | 1978.4  | 1285.1  | 1067.3  | 1045.5  |
| 80°   | 272.3   | 286.8   | 323.1   | 435.6   | 1060.0  | 2061.9  | 1419.4  | 726.0   | 482.8   | 399.3   | 381.2   |
| 82.5° | 148.8   | 159.7   | 210.5   | 225.1   | 301.3   | 548.1   | 468.3   | 341.2   | 290.4   | 232.3   | 225.1   |
| 85°   | 83.5    | 87.1    | 119.8   | 119.8   | 145.2   | 159.7   | 170.6   | 181.5   | 177.9   | 130.7   | 127.1   |
| 87.5° | 25.4    | 29.0    | 36.3    | 36.3    | 36.3    | 36.3    | 58.1    | 79.9    | 87.1    | 61.7    | 61.7    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)